

Application Number 09/714,325
Amendment dated February 24, 2004
Reply to Office Action of November 5, 2003

In the Claims

Please amend the claims as follows:

- A17
1. (Currently Amended) A method of storing data in an address trace cache in the environment of branch prediction ~~method using a trace cache~~ comprising the steps of:
if a routine composed of unrepeated instructions is to be executed, storing an address corresponding to each instruction in the address trace cache according to an order of executed instructions; and
if a routine composed of repeated instructions is to be repeatedly executed, storing a routine start address, a routine end address, a current access times iteration count of the routine, and a total access times number of iterations of the routine;
providing the trace cache with a current iteration loop counter for counting the current iteration count when the routine of repeated instructions is executed and a total iteration loop counter for counting the total number of iterations of the routine of repeated instructions; and
addressing a start address which will be accessed subsequent to execution of the routine if the current iteration count and the total number of iterations are identical.
 2. Canceled
 3. Canceled
 4. Canceled

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Amendments to the Drawings:

The attached sheets of drawings include changes to Figures 1, 2A, 2B and 3, and include new sheets of drawings labeled Figures 7-9. The sheets that include Figures 1, 2A, 2B and 3 replace their respective original sheets of figures filed with the application. In Figures 1, 2A, 2B and 3, the legend "Prior Art" has been added. Figures 7-9 are new figures which should be added to the application in accordance with the Examiner's request.

Attachment: Replacement Sheets

Annotated Sheets Showing Changes